

Notice of Allowability

Application No.

10/714,244

Examiner

Michael Yaary

Applicant(s)

SHAPIRO, MICHAEL W.

Art Unit

2193

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 09/10/2007.
2. ☒ The allowed claim(s) is/are 1,3,5,8,21,22,24,26-28,30 and 31.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 09/25/2007.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


MENG-AL YAN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Aly Z. Dossa on 09/25/2007.

The examiner has amended the claims of the application as follows:

1. A method for tracing a program comprising:
generating a trace object code from trace source code;
processing component information of the trace object code to generate an object file;
wherein the object file comprises a linear sequence of bytes comprising:
 - a file header,
 - a first section header of type enable control block (ECB),
 - a second section header of type action,
 - a first section data entry associated with the first section header
comprising a name of a probe to enable and a name of a second section
data entry of type action,
 - the second section data entry associated with the second section header
defining at least one selected from a group consisting of a predefined

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action and a name of a third section data entry of type program object corresponding to an action, and

a third section header comprising a name of a fourth section data entry comprising program object code associated with a predicate, wherein the program object code associated with the predicate is executed when the probe is encountered during tracing;

parsing the object file, by a tracing framework, to enable the probe in the program;

tracing the program, wherein tracing the program comprises encountering the probe;

executing at least one selected from a group consisting of the predefined action and the action associated with the probe to obtain data.

2. (Cancelled)

3. The method of claim 1, further comprising:
saving the object file in a persistent data store.

4. (Cancelled)

5. The method of claim 1, wherein the trace source code comprises a probe description associated with the probe, wherein the probe description comprises an optional predicate and the action.

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6. (Cancelled)

7. (Cancelled)

8. The method of claim 1, wherein processing component information comprises:
assigning a unique identifier for each section header in the plurality of section headers.

9-20. (Cancelled)

21. A computer system tracing a program comprising:
a processor;
a memory;
a storage device; and
software instructions stored in the memory for enabling the computer system to:
generate a trace object code from trace source code;
process component information of the trace object code to generate the
object file,
wherein the object file comprises a linear sequence of bytes comprising:
a file header,
a first section header of type enable control block (ECB),
a second section header of type action,

a first section data entry associated with the first section header comprising a name of a probe to enable and a name of a second section data entry of type action,

the second section data entry associated with the second section header defining at least one selected from a group consisting of a predefined action and a name of a third section data entry of type program object corresponding to an action, and

a third section header comprising a name of a fourth section data entry comprising program object code associated with a predicate, wherein the program object code associated with the predicate is executed when the probe is encountered during tracing;

parse the object file, by a tracing framework, to enable the probe in the program;

trace the program, wherein tracing the program comprises encountering the probe;

execute at least one selected from a group consisting of the predefined action and the action associated with the probe to obtain data.

22. The computer system of claim 21, wherein processing component information comprises software instructions stored in the memory for enabling the computer system to:

assign a unique identifier for each section header in the plurality of section headers.

23. (Cancelled)

24. The computer system of claim 21, further comprising software instructions stored in the memory for enabling the computer system to:
save the object file in a persistent data store.

25. (Cancelled)

26. The computer system of claim 21, wherein the trace source code comprises a probe description associated with the probe, wherein the probe description comprises an optional predicate and action.

27. The computer system of claim 21, wherein the third section data entry comprises the program object code corresponding to the action.

28. The computer system of claim 27, wherein the program object code is executed by a virtual machine.

29. (Cancelled)

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30. The method of claim 1, wherein the third section the third section data entry comprises the program object code corresponding to the action.

31. The method of claim 30, wherein the program object code is executed by a virtual machine.

32. (Cancelled)

REASONS FOR ALLOWANCE

2. Claims 1, 3, 5, 8, 21, 22, 24, 26-28, 30, and 31 are allowed.

3. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to teach or suggest the claimed invention. Specifically the prior art of record fails to teach or suggest a third section header comprising a name of a fourth section data entry comprising program object code associated with a predicate, wherein the program object code associated with the predicate is executed when the probe is encountered during tracing, as recited in independent claims 1 and 21.

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4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

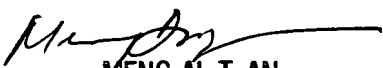
5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Yaary whose telephone number is (571) 270-1249. The examiner can normally be reached on Monday-Friday, 8:00 a.m - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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